

Catalog #:	
Project :	
Type :	Date:
Notes:	

## LED Commercial Down Light New Construction / Retrofit

## CDL1APEX™ SERIES

### DESCRIPTION

Robust Commercial Downlight Retrofit engineered for demanding commercial applications. Save up to 80% in energy cost. 100% Mercury & Lead Free.

### APPLICATIONS

Ideal for lighting malls, hospitals, hotels, and retail spaces. Replaces CFL & HID or Incandescent downlights for higher energy savings & aesthetics.



### QUICK SHIP:

TL-CDL1APEX-6-24W-30K	TL-CDL1APEX-8-30W-30K
TL-CDL1APEX-6-24W-40K	TL-CDL1APEX-8-30W-40K
TL-CDL1APEX-6-24W-50K	TL-CDL1APEX-8-30W-50K

### Specification Features



### Controls / Dimming

High quality isolated driver; 0-10V dimming; Flicker free. Frosted Lens and Non-IC, and rated for damp locations. Beam angle is 85°.

### Warranty

5 Years Limited Warranty. See warranty documentation for more information.

### Certification

It complies with UL & cUL certification, Energy Star Rated, and FCC.

### Installation / Mounting

LED recessed downlight retrofit is supplied with a quick connect-case and conduit to make an easy connection to an existing recessed fixture frame junction box. Instant start w/NO humming.

### Ordering Information

Example: TL-CDL1APEX-6-30W

TL	CDL1APEX	6		18W		50K		[Blank]	
Brand	Series		Diameter		Nominal Wattage		Color Temp		Diffuser Type
TL TechnoLED	CDL1APEX		6	6 Inch	12W	12 Watt	27K	2700K	[Blank] Frosted
	Commercial		8	8 Inch	18W	18 Watt	30K	3000K	
	Downlight	Retrofit	10	10 Inch	24W	24 Watt	35K	3500K	
					30W	30 Watt	40K	4000K	
					50W	50 Watt	50K	5000K	
[Blank]									
Controls/Mounting/Options									
				H1 480V	AC347-480V Driver				



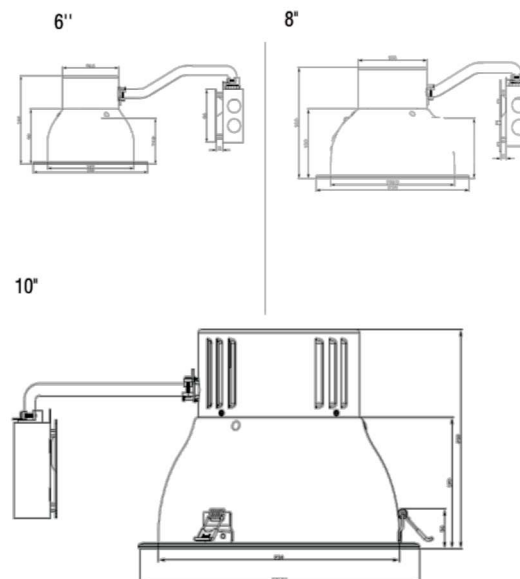
## Lighting Parameters

Input Voltage	AC100-277V
CCT	3000K / 4000K / 5000K
CRI	Ra>80
Luminous efficacy	100lm/w
PF	0.90
Driver Efficiency	87%
THD	≤20%
Working temperature	-4°F~104°F
Storage temperature	-22°F~140°F
IP Rating	IP20

## Other Features:

- Dimmable to 5% with most Lutron and Leviton 0-10V dimmers.
- Non-flicker driver optional.
- Comfortable diffused light, no dark area.
- Quick connector ,Pre-wired conduit for easy installation.
- Replacing traditional 6"and 8"CFL, HID or Incandescent down lights
- While or silver finish available.

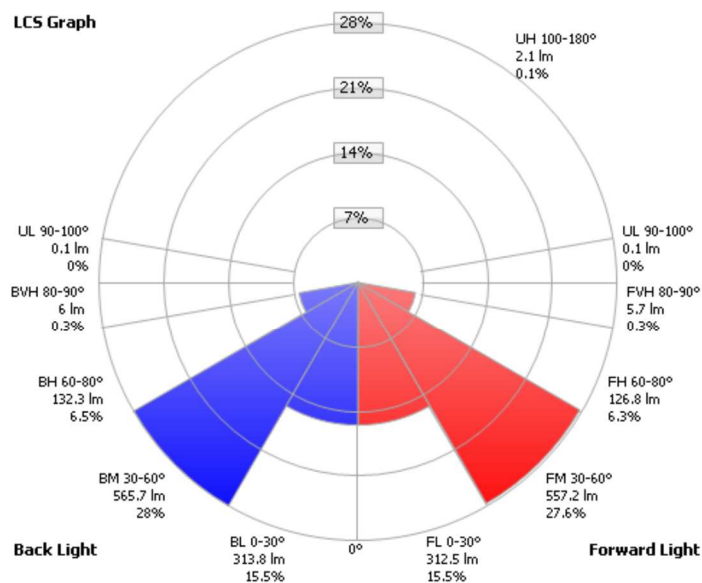
## Product Dimension



Part Number	L	W	H
TL-CDL1APEX-6"	7.79"	5.86"	5.67"
TL-CDL1APEX-8"	9.25"	7.50"	6.30"
TL-CDL1APEX-10"	10.74"	9.37"	7.87"

## Photometric data

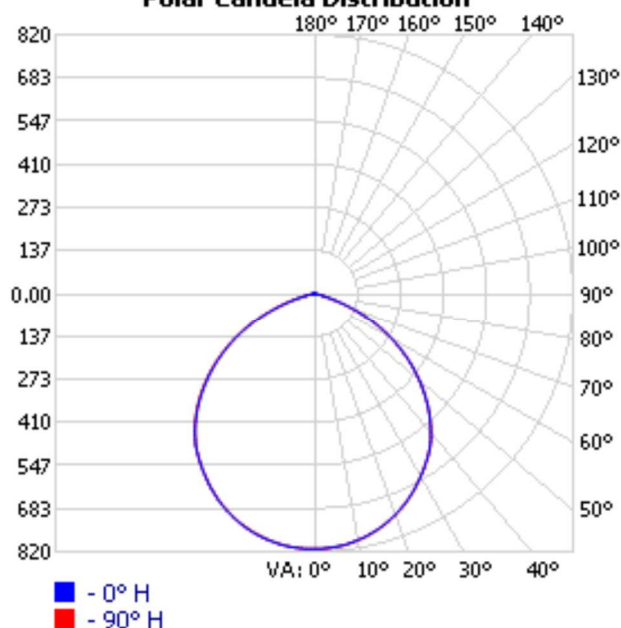
LCS Graph



Scale = Max LCS %

Trapped Light: 0lm, 0%

Polar Candela Distribution



■ - 0° H  
■ - 90° H

## Photometric data

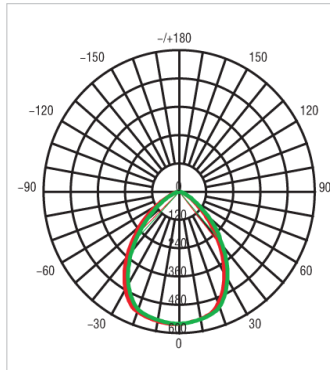
Luminous intensity distribution diagram

Average illuminance curve

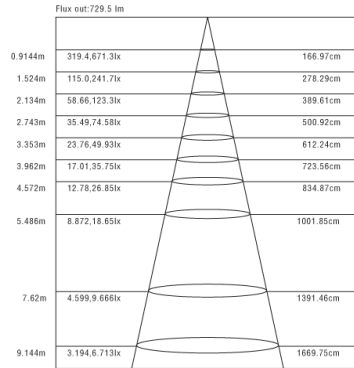
Luminous intensity distribution diagram

Average illuminance curve

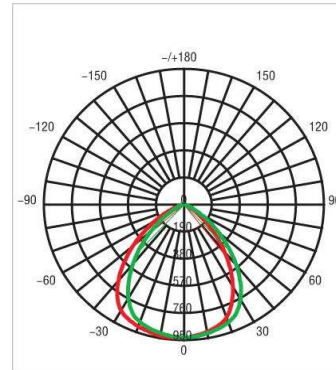
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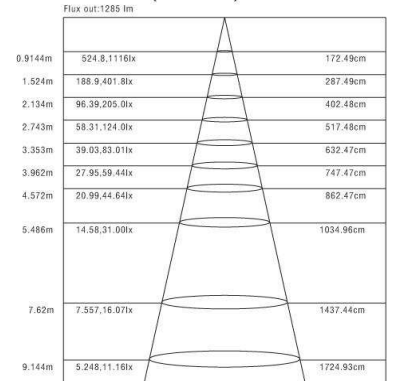
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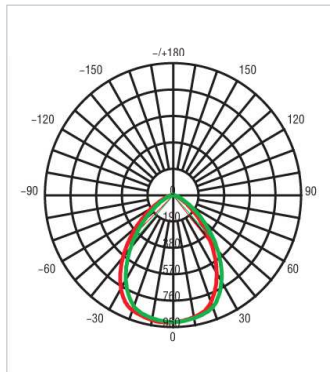
(8" 18W)



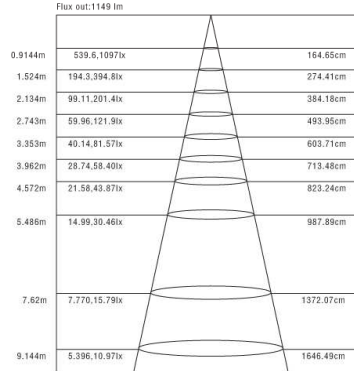
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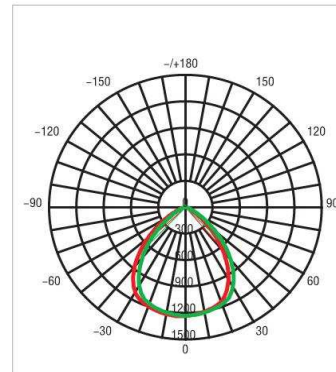
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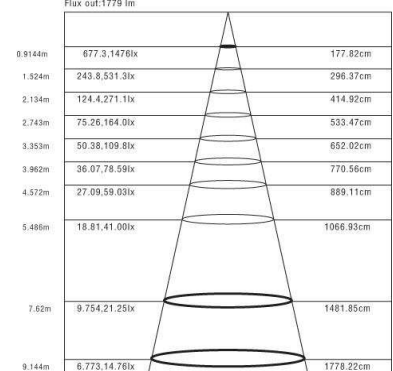
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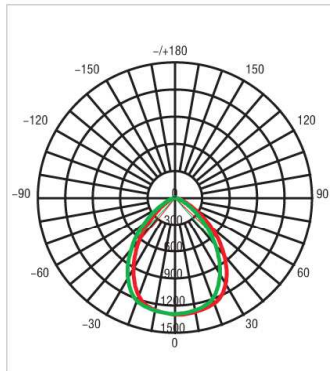
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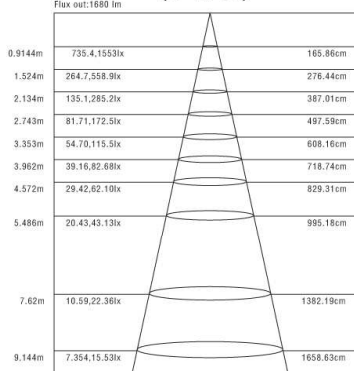
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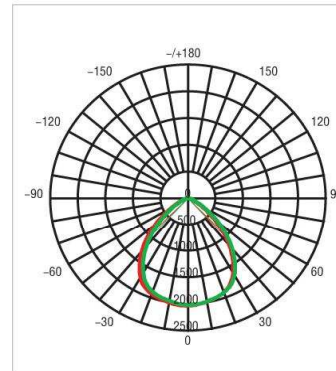
(6" 27W)



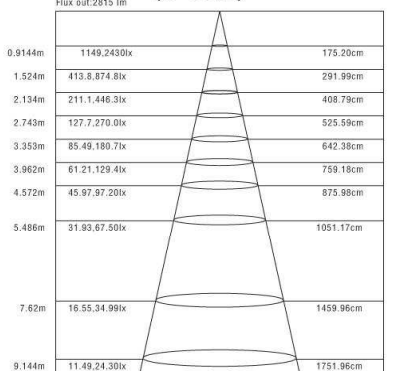
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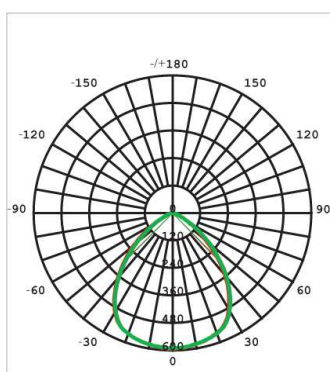
(8" 30W)



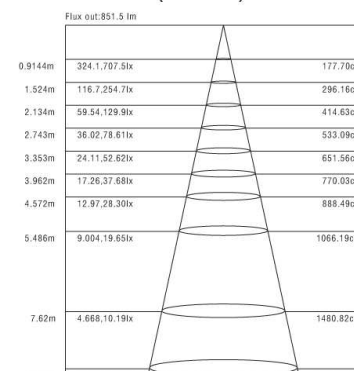
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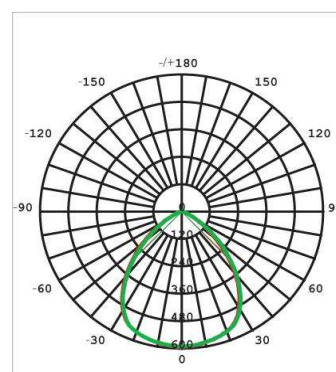
(8" 12W)



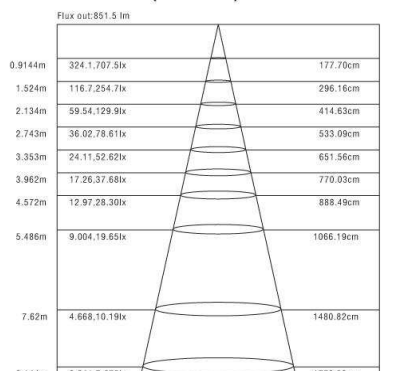
(8" 12W)



(8" 12W)



(8" 12W)



## Installation Instruction

### IMPORTANT SAFETY INFORMATION. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

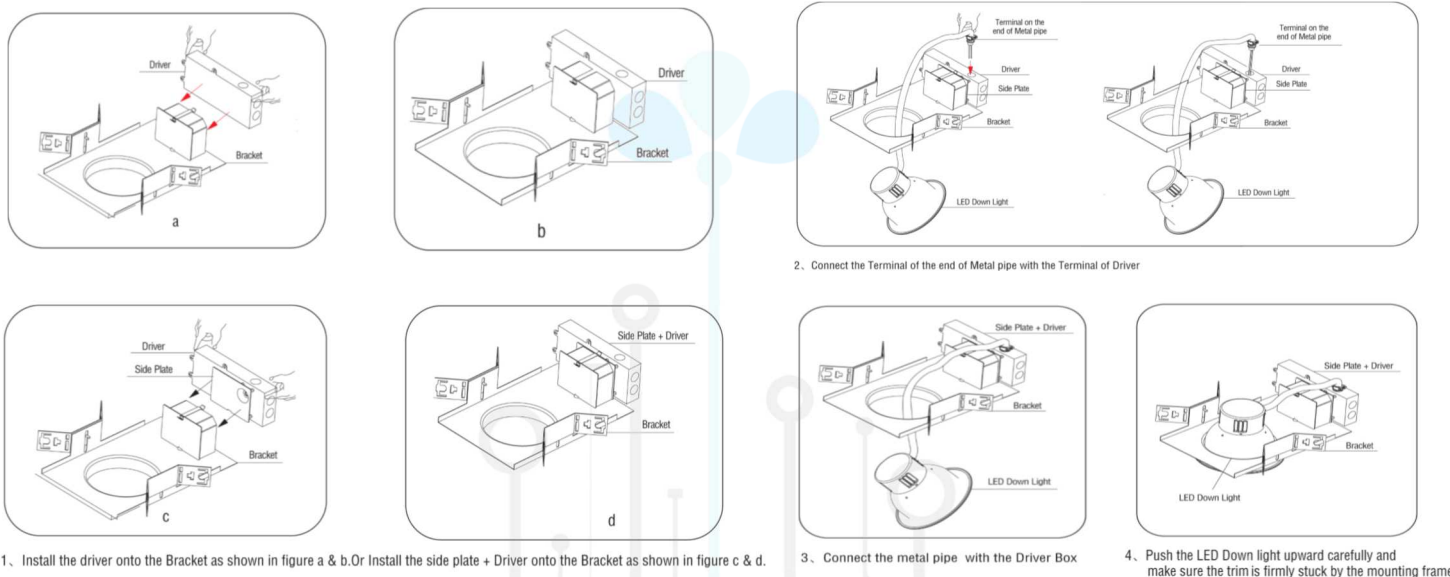
Follow label information and instructions concerning dry or Damp locations, installation near combustible material, insulation, building materials and proper lamping.  
**WARNING**-Risk of fire or electric shock, LED Retrofit Kit installation requires knowledge of luminaire electrical systems, If not qualified, do not attempt installation.  
 Please contact a qualified electrician.

Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals, Instead installers should cut existing lamp holder Leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.

**WARNING**-Risk of fire or electric shock, Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawing and

where the input rating of the retrofit kit does not exceed the input rating of the luminaire. DO NOT NAKE OR ALTER ANY OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS DURING KIT INSTALLATION.

**WARNING**-To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.



## Product and Packing Information

Model	Outer Carton Size	Qty/Carton	N.W./Ctn	G.W./Ctn
TL-CDL1APEX-6	22.83" x 19.48" x 14.17"	8 pcs.	16.7 lbs.	26 lbs.
TL-CDL1APEX-8	22.59" x 21.85" x 15.55"	8 pcs.	18.5 lbs.	33 lbs.
TL-CDL1APEX-10	25.20" x 14.76" x 18.89"	4 pcs.	13.2 lbs.	24 lbs.

Model	Description	Input Watts	Delivered Lumens	Universal Voltage (VAC)	Max Line Current (Amp) @ 120 - 277	THD	Power Factor	Weight
TL-CDL1APEX-6-12W-zzk	Commercial Downlight ( 6 Inch )	12	1,200	120-277	0.11 - 0.05	≤20%	>0.9	2.1 lbs.
TL-CDL1APEX-6-18W-zzk	Commercial Downlight ( 6 Inch )	18	1,800	120-277	0.17 - 0.09	≤20%	>0.9	2.3 lbs.
TL-CDL1APEX-6-24W-zzk	Commercial Downlight ( 6 Inch )	24	2,400	120-277	0.22 - 0.12	≤20%	>0.9	2.1 lbs.
TL-CDL1APEX-8-30W-zzk	Commercial Downlight ( 8 Inch / 10 inch )	30	3,000	120-277	0.28 - 0.18	≤20%	>0.9	2.3/3.3 lbs.
TL-CDL1APEX-10-50W-zzk	Commercial Downlight ( 10 Inch )	50	5,000	120-277	0.47 - 0.25	≤20%	>0.9	3.3 lbs.

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dba Techno LED Lights.

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